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What is claimed is:

1. A storage apparatus operable as primary in a remote copy pair comprising:

a remote copy component operable to establish a remote copy relationship between said primary and a secondary;

a copy component operable at said primary to create a copy for download onto a portable physical storage medium for offline transport to said secondary for upload;

a synchronization component for synchronizing data at said secondary with data at said primary using an online link in response to a request for synchronization from said secondary;

a metadata component operable to store a dirty state indicator of a portion of a storage space at said primary after establishment of said remote copy relationship at said primary; and

said metadata component being operable to limit synchronization at said secondary to said portion of storage having said dirty state indicator at said primary.

2. A storage apparatus as claimed in claim 1, wherein said metadata component comprises a bitmap and said portion of said storage space is a grain of data.

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- 3. A storage apparatus as claimed in claim 1, further operable as a secondary in a remote copy pair and comprising:
- a loading component for uploading said copy from said portable physical storage medium;
- a suppressing component for suppressing synchronization from a metadata component in said secondary; and
- a requester component for requesting synchronization of data at said secondary with data at said primary using an online link.
 - 4. A storage apparatus as claimed in claim 1, wherein said online link comprises a storage area network.
 - 5. A storage apparatus as claimed in claim 1, wherein said copy component comprises a Flash Copy component.
- 6. A storage adapter card comprising a storage apparatus as claimed in claim 1.
 - 7. A storage virtualization engine comprising a storage adapter card as claimed in claim 6.
- 25 8. A method of operating a storage apparatus as primary in a remote copy pair comprising the steps of:

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establishing a remote copy relationship between said primary and a secondary;

creating a copy of a storage space for download onto a portable physical storage medium for offline transport to said secondary for upload;

synchronizing data at said secondary with data at said primary using an online link in response to a request for synchronization from said secondary;

storing, in a metadata component, a dirty state indicator of a portion of a storage space at said primary after establishment of said remote copy relationship at said primary; and

said metadata component being operable to limit synchronization at said secondary to said portion of storage having said dirty state indicator at said primary.

- 9. A method as claimed in claim 8, wherein said metadata component comprises a bitmap and said portion of said storage space is a grain of data.
- 10. A method as claimed in claim 8, wherein said storage apparatus is further operable as a secondary in a remote copy pair and comprising steps of:

uploading said copy from said portable physical
storage medium;

suppressing synchronization from a metadata component in said secondary; and

requesting synchronization of data at said secondary with data at said primary using an online link.

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11. A method as claimed in claim 8, wherein said online link comprises a storage area network.

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12. A method as claimed in claim 8, wherein said step of creating a copy of a storage space comprises using a Flash Copy component.

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13. A computer program product comprising computer program code tangibly embodied in a computer-readable storage medium to, when loaded into a computer system and executed thereon, cause said computer system to operate a storage apparatus as primary in a remote copy pair by performing the computer program code steps of:

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establishing a remote copy relationship between said primary and a secondary;

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creating a copy of a storage space for download onto a portable physical storage medium for offline transport to said secondary for upload;

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synchronizing data at said secondary with data at said primary using an online link in response to a request for synchronization from said secondary;

storing, in a metadata component, a dirty state indicator of a portion of a storage space at said primary after establishment of said remote copy relationship at said primary; and

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limiting, by said metadata component, synchronization at said secondary to said portion of storage having said dirty state indicator at said primary.

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A computer program product as claimed in claim 13, wherein said metadata component comprises a bitmap and said portion of said storage space is a grain of data.

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A computer program product as claimed in claim 13, wherein said storage apparatus is further operable as a secondary in a remote copy pair and comprising further computer program code steps of:

uploading said flash copy from said portable physical

storage medium;

suppressing synchronization from a metadata component in said secondary; and

requesting synchronization of data at said secondary with data at said primary using an online link.

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A computer program product as claimed in claim 13, 16. wherein said online link comprises a storage area network. 10

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- 17. A computer program product as claimed in claim 13, wherein said computer program code step of creating a copy of a storage space comprises using a Flash Copy component.
- 18. A method of deploying a computerized business continuity service by operating a customer storage apparatus as primary in a remote copy pair comprising the steps of:

establishing a remote copy relationship between said primary and a secondary;

creating a copy of a storage space for download onto a portable physical storage medium for offline transport to said secondary for upload;

synchronizing data at said secondary with data at said primary using an online link in response to a request for synchronization from said secondary;

storing, in a metadata component, a dirty state indicator of a portion of a storage space at said primary after establishment of said remote copy relationship at said primary; and

said metadata component being operable to limit synchronization at said secondary to said portion of storage having said dirty state indicator at said primary.

19. A method as claimed in claim 18, wherein said metadata component comprises a bitmap and said portion of said storage space is a grain of data.

20. A method of deploying a computerized business continuity service as claimed in claim 18, wherein a supplier storage apparatus is operable as a secondary in a remote copy pair and comprising steps of:

uploading said copy from said portable physical storage medium;

suppressing synchronization from a metadata component in said secondary; and

requesting synchronization of data at said secondary with data at said primary using an online link.

- 21. A method of deploying a computerized business continuity service as claimed in claim 18, wherein said online link comprises a storage area network.
- 22. A method of deploying a computerized business continuity service as claimed in claim 18, wherein said step of creating a copy of a storage space comprises using a Flash Copy component.

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